

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/037106 A2

- (51) International Patent Classification⁷: **A61C** 40840 (US). RYAN, Kevin, J. [US/US]; 2710 Longfellow Lane, Midland, MI 48640 (US).
- (21) International Application Number: PCT/US2003/033914 (74) Agent: GOLDFINE, Henry, S.; Colgate-Palmolive Company, 909 River Road, P.O. Box 1343, Piscataway, NJ 08855-1343 (US).
- (22) International Filing Date: 24 October 2003 (24.10.2003)
- (25) Filing Language: English (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (26) Publication Language: English
- (30) Priority Data: 60/421,037 24 October 2002 (24.10.2002) US (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicants (*for all designated States except US*): COLGATE-PALMOLIVE COMPANY [US/US]; 300 Park Avenue, New York, NY 10022 (US). DOW CORNING CORPORATION [US/US]; 2200 West Salzburg Road, Midland, MS 48686 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): CAI, Heng [US/US]; 1659 Covington Road, Yardley, PA 19067 (US). HOLERCA, Marian, N. [RO/US]; 117 Benner Street, Highland Park, NJ 08904 (US). CHEN, Albert, C. [US/US]; 14 Vaux Hall Road, East Brunswick, NJ 08816 (US). CANADY, Van [US/US]; 1085 Cherry Hill Road, Princeton, NJ 08540 (US). AFFLITTO, John [US/US]; 2 Jay Drive, Brookside, NJ 07926 (US). FANTANO, Steven, L. [US/US]; 48 Russling Road, Hackettstown, NJ
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: SILICON MODIFIED POLYAMIDE MATERIAL USEFUL FOR ORAL CARE

(57) Abstract: The invention is directed to a new material useful in oral care products such as dental floss or as a toothbrush bristle. The material is a silicon-modified polyamide blended with a different polyamide material. The preferred different polyamide material is the conventional material used to make bristles of toothbrushes. The different polyamide material is preferably a nylon material.

WO 2004/037106 A2